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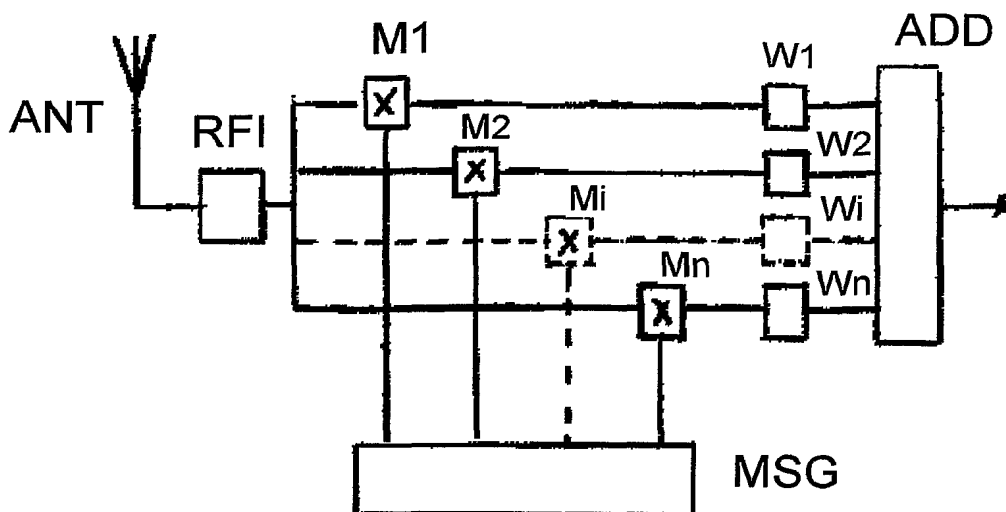
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(54) Title: MULTIPLIER DEVICE



(57) Abstract: Multiplier device comprising first to n^{th} multipliers M_1 to M_n for multiplying a carrier modulated information signal with first to n^{th} mutually phase shifted and identical, substantially square wave mixing signals MS_1 to MS_n with 50% duty cycle. In order to eliminate fifth or higher order interferences from the output of said multiplier device according to the invention, n is greater than 2, outputs of said multipliers M_1 to M_n are respectively coupled through weighting circuits W_1 to W_n with respective fixed weighting factors WF_1 to WF_n to an adder circuit, said mixing signals MS_1 to MS_n having respective phase angles ϕ_i corresponding to $\phi_i = i * \Delta\phi$, said weighting factors WF_i corresponding to the sine value of said respective phase angles $\phi_i = i * \Delta\phi$ with $\Delta\phi$ being the mutual phase difference between each two phase consecutive mixing signals corresponding to $\pi/(n+1)$ and i varying from 1 to n .

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